



**(a) Aggregated Graph**

**(b) Star Partitioning**

**(c) Apriori Enumerator**

Snapshot  
Clusters

Map

Reduce

**Star Partitioning and Apriori Enumerator**

**Pattern Set**

$O_3, O_4, O_5$

$O_5, O_6, O_7$

...